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	INFORMATION DIS	SCLOSURE	Applicati n Number	10/615,803	70 4	
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	No.¹	Office ³	Number ⁴	(if known)	Applicant of Cited Documents	MM-DD-YYYY	Passages or Relevant Figures Appear	T ⁶
CA	A43	DE	3508251			09/11/1986		
CA	A44	DE	3931051			03/29/1990		
CA	A45	DE	4015255			11/14/1991		
CA	A46	EP	12401			06/25/1980		
CA	A47	EP	48159			03/24/1982		
CA	A48	EP .	50800			05/05/1982		
CA	A49	EP	73143			03/02/1983		
CA	A50	EP	88350			09/14/1983		
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CA	A52	EP	260118			03/16/1988		
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CA	A59	EP	572365			12/01/1993		
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CA	A68	WO	95/35308			12/28/1995		
CA	A69	WO	95/26337			10/05/1995		
CA	A70	WO	93/25546			12/23/1993		
CA.	A71	wo	95/24385			09/14/1995		
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/A	A86	wo	91/04985			04/18/1991		
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CA	A88	wo	92/00278			01/09/1992		
/4	A89	wo	88/09789			12/15/1988		
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CA	A91	wo	91/13088			09/05/1991		
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CA	A94	ZA	9207782			04/28/1993		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ6
CA	A95	ASKIN, et al., "Efficient Degradation of FK-506 to a versatile synthetic intermediate," <u>J. Org. Chem.,</u> 1990, Vol. 55(20), pgs. 55451-4.	
CA	A96	GOULET, et al., "Degradative studies on the tricarbonyl containing macrolide rapamycin," <u>Tetrahedron Lett.</u> , 1990, Vol. 31(34), pgs. 4845-8.	
CA	A97	JONES, et al., "Chemistry of tricarbonyl hemiketals and application of Evans technology to the total synthesis of the immunosuppressant (-) – FK-506," <u>J. Am. Chem. Soc.</u> , 1990, Vol. 112(8), pgs. 2998-3017.	
CA	A98	JONES, et al., "A formal synthesis of FK-506. Exploration of some alternatives to macrolactamization," <u>J. Org. Chem.</u> , 1990, Vol. 55(9), pgs. 2786-97.	
CA	A99	RAO, et al., "Studies directed towards the synthesis of immunosuppresive agent FK-506: construction of the tricarbonyl moiety," <u>Tetrahedron Lett.</u> , 1990, Vol. 31(10), Pgs. 1439-42.	
CA	A100	HARDING, et al., "A receptor for the immunosuppresive FK506 is a <i>cis-trans</i> peptidyl-prolyl isomerase," Nature Lett., 1989, Vol. 341, pgs. 758-60.	
CA	A101	FINBERG, et al., "Prevention of HIV-1 Infection and Preservation of CD4 Function by the Binding of CPFs to gp120," <u>Science</u> , 1990, Vol. 249, pgs. 287-91.	
CA	A102	GOODFELLOW, et al., "p-Nitrophenyl 3-diazopyruvate and diazopyruvamide, a New Family of Photoactivatable Cross-Linking Bioprobes," <u>Biochemistry</u> , Vol. 28(15), pgs. 6346-60.	
CA	A103	WASSERMAN, et al., "Synthesis of the tricarbonyl region of FK-506 through an amidophosphorane [Erratum to document cited in CA111(7):57366p]," <u>J. Org. Chem.</u> , 1989, Vol. 54(22), pg. 5406.	

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		NON PATENT LITERATURE DOCUMENTS	
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CA	A104	WASSERMAN, et al., "Synthesis of the tricarbonyl region of FK-506 through an amidosphere," <u>J. Org. Chem.</u> , 1989, Vol. 54(12), pgs. 2785-6.	
CA	A105	DRAGOVICH, et al., "Structured-Based Design of Novel, Urea-Containing FKBP12 Inhibitors," J. Med. Chem., 1996, Vol. 39, pgs. 1872-1884.	
CA	A106	GOLD, et al., "The Immunosuppressant FK506 Increases the Rate of Axonal Regeneration in Rat Sciatic Nerve," The Journal of Neuroscience, 1995, Vol. 15(11), pgs. 7509-7516.	
CA	A107	GOLD, et al., "The Immunosuppressant FK506 increases functional recovery and nerve regeneration following peripheral nerve injury," Restorative Neurology and Neuroscience, 1994, Vol. 6, pgs. 287-296.	
CA	A108	LYONS, et al., "Immunosuppressant FK506 promotes neurite outgrowth in culture of PC12 cells and sensory ganglia," Proc. Natl. Acad. Sci. USA, 1994, Vol. 91, pgs. 3191-3195.	
CA	A109	GOLD, et al., "Multiple signals underlie the anatomy-induced up-regulation of c-JUN in adult sensory neurons," Neuroscience Letters 176, 1994, pgs. 123-127.	
CA	A110	GOLD, et al., "Regulation of the transcription factor c-JUN by nerve growth factor in adult sensory neurons," Neuroscience Letters 154, 1993, pgs. 129-133.	
CA	A111	ASKIN, et al., "Chemistry of FK-506: benzilic acid rearrangement of the tricarbonyl system," Tetrahedron Lett., 1989, Vol. 30(6), pgs. 671-4.	
CA	A112	COLEMAN, et al., "Degradation and manipulations of the immunosupressant FK506: preparation of potantial synthetic intermediates," <u>Heterocycles</u> , 1989, Vol. 28(1), pgs. 157-61.	
CA	A113	FAELTH, et al., "Interactions between C=S groups in 1, 2 and 1, 3-bis (thiocarbonyl) Compounds: A Study by Spectroscopy, X-Ray Crystallography, and CNDO/S Calculations," THEOCHEM, 1989, Vol. 55, pgs. 239-59.	
CA	A114	DOULMEDAIS, et al., "Sterochemistry of Electrochemical Reduction of Optically Active ∝-ketoamides. II. Electroreduction of benzoylformamides derived from S-(-)-proline," <u>Bull. Soc. Chim. Fr.</u> , 1989, Vol. (2), pgs. 185-01. (French)	
CA	A115	SOAI, et al., "Asymmetric Allylation of ∝-keto amides Derived from (S)-proline esters," Pept. Chem., 1986, Vol. 24, pgs. 327-30.	
CA	A116	MUNEGUMI, et al., "Asymmetric Catalytic Hydrogenations of N-pyruvoyl-(s)-proline esters," <u>Bull. Chem. Soc. Jpn.</u> , 1987, Vol. 60(1), pgs. 243-53.	
CA	A117	SOAI, et al., "Diasteroselective asymmetric allylation of chiral ∝-keto amides with allyltrimethylsilane. Preparation of protected homoallylic alcohols," <u>J. Chem. Soc.</u> , 1984, Vol. 15, pgs. 1016-17.	
CA	A118	SOAI, et al., "Sodium borohydride as diastereoselective reducing agent of chiral ∝-keto amides," Pept. Chem., 1982, Vol. 20, pgs. 81-4.	

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CA	A119	SOAI, et al., "Asymmetric Synthesis of Functionalized tertiary alcohols by diastereoselective allylation of chiral ∞-keto amides derived from (S)-proline esters: control of sterochemistry based on saturated coordination of Lewis acid," J. Org. Chem., 1986, Vol. 57(17), pgs. 3290-5. (English)	
CA	A120	SOAI, et al., "Asymmetric synthesis of both enantiomers of ∞-hydroxy acids by the diastereoselective reduction of chiral ∞-keto amides with complex metal hydrides in the presence of a metal salt," <u>Chem.</u> Lett. 1986, Vol. 11, pos. 1897-900.	
CA	A121	SOAI, et al., "Diastereoselective reduction of chiral ∝-keto amides derived from (S)-proline esters with sodium borohydride. Preparation of optically active ∝-hydroxy acids," <u>J. Chem. Soc.</u> , 1985, Vol. 1(14), pps. 769-72.	
CA	A122	BENDER, et al., "Periodate oxidation of ∞-keto γ-lactams. Enol oxidation and β-lactam formation. Mechanism of periodate hydroxiation reactions," <u>J. Org. Chem.</u> , 1978, Vol. 43(17), pgs. 3354-62.	
CA	A123	COLOMBO, et al., "Enantioselective synthesis of secondary alcohols in the presence of chiral ligands," <u>Tetrahedron</u> , 1982, Vol. 38(17), pgs. 2725-7.	
CA	A124	SOAI, et al., "Unusual effect of mixed solvent on the asymmetric reduction of chiral α-keto amides with sodium borohydride," J. Chem. Soc., 1982, Vol. 21, pgs. 1282-3.	
LA	A125	STEGLICH, et al., "Activated carboxylic acid derivatives. II. A simple synthesis of 2-oxycarboxylic acid amides, N-(2-oxoacyl) amino acid esters and 2-oxocarboxylic acid hydrazides," Synthesis, 1978, Vol. 9, pgs. 622-4. (German)	
CA	A126	CUSHMAN, et al., "Design of potent competitive inhibitors of angiotensin-converting enzyme. Caboxylalkanoyl and mercaptoalkanoyl amino acids," <u>Biochemistry</u> , 1977, Vol. 16(25), pgs. 5484-91.	
CA	A127	STEGLICH, et al., "A rational synthesis of N-triluoroacetylamino acids," <u>Synthesis</u> , 1976, Vol. 8, pgs. 399-401. (German)	
CA	A128	BYCROFT, et al., "Efficient asymmetric synthesis of .alphaamino from .alphaketo acids and ammonia with conservation of the chiral reagent," <u>J. Chem. Soc.</u> , 1975, Vol. 24, pgs. 988-9.	
CA	A129	CHAKARABORTY, "Studies towards the development of cyclic peptide-based analogs of macrolide immunosuppresants," <u>Pure Appl. Chem.</u> , 1996, Vol. 68(3), pgs. 565-568.	
CA	A130	PONTICELLI, "Treatment of the Nephrotic Syndrome with Cyclosporin A," J. of Autoimmunity, 1992, Vol. 5, pgs. 315-24.	
CA	A131	TINDALL, "Immunointervention with Cyclosporin A in autoimmune Neurological Disorders," <u>J. of Autoimmunity</u> , 1992, Vol. 5, pgs. 301-313.	
CA	A132	TUGWELL, "Cyclosporin in the Treatment of Rheumatoid Arhtritis," <u>J. of Autoimmunity</u> , 1992, Vol. 5, pgs. 231-40.	

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	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т6			
CA	A133	FRY, "Psoriasis: Immunopathology and Long-term Treatment with Cyclosporin," <u>J. of Autoimmunity</u> , 1992, Vol. 5,pgs. 277-83.				
CA	A134	FEUTRAN, "The Optimal use of Cyclosporin o in Autoimmune Disease," <u>J. of Autoimmunity</u> , 1992, Vol. 5, pgs. 183-95.				
CA	A135	SLEE, et al., "Selectivity in the Inhibition of HIV and FIV Protease: Inhibitory and Mechanistic Studies of Pyrrolidine-Containing α-Keto Amide and Hydroxyethylamine Core Structures," J. Am. Chem. Soc., 1995, Vol. 117(48), pgs. 1187-78.				
CA	A136	NICOLAU, et al., "Total synthesis of rapamycin," Che. –Eur. J., 1995, Vol. 1(5), pgs. 318-33.				
A137 MUNOZ, et al., "α-ketoamide Phe-Pro isostere as a new core structure for the inhibition of HIN protease," Bioorg. Med. Chem., 1994, 2(10), 1085-90.						
CA	A138	HAUSKE, et al., "Investigation of the effects of synthetic non-cytotoxic immunophilin inhibitors on MDR," Bioorg., Med. Chem. Lett., 1994, 4(17), 2097-102.				
CA	A139	MASHKOVSKII, et al., "1-[4-(2-Hydroxy-3-tert-butylaminopropoxy)-indole-3-yl (5-acetamido-1-(S)-carboxypentyl) –DL-alanyl] –L-proline dihydrochloride, a new angiotensin-converting enzyme inhibitor with β-adrenoblocking properties," Khim. –Farm. Zh., 1993, Vol. 27(10), pgs. 16-20.				
CA	A140	Ranganathan, Darshan et al., "Protein Backbone Modification by Novel Cα-C Side-Chain Scission," 1994, J. Am. Chem. Soc., Vol. 116(15), pgs. 6545-57.				
CA	A141	Baader, Ekkehard et al., "Inhibition of prolyl 4-hydroxylase by oxalyl amino acid derivatives in vitro, in isolated microsomes and in embryonic chicken tissues," Biochem. J., 1994, Vol. 300(2), pgs. 525-30.				
CA	A142	Holt, Dennis A. et al., ""Structure-activity of synthetic FKBP ligands as peptidyl-prolyl isomerase inhibitors," Bioorg. Med. Chem. Lett., 1994, Vol. 4(2), pgs. 315-20.				
CA	A143	Karle, Isabella L. et al., "Conformation of the oxalamide group in retro-bispeptides. Three crystal structures." Int. J. Pept. Protein Res., 1994, Vol. 43(2), pgs. 160-5.				
CA	A144	Kaczmar, et al., "Darstellung verscheider Schlangenkafig-Polyelektrolyte auf der Basis von Polyacrylamiden und einem Anionenaustauscher," Makromol. Chem., 1976, Vol. 177, pgs. 1981-9. (German)				
CA	A145	Steiner, Jospeh P. et al., "High braindensities of the immunophilin FKBP colocalized with calcineurin," Nature Lett., 1992, Vol. 358, pgs. 584-7.				
CA	A146	Pattenden, Gerald and Tnkard, Mark, "Facile Synthesis of the tricarbonyl subunit in the imunosuppresant rapamycin," Tetrahedron Lett., 1993, Vol. 34(16), pgs. 2677-80.				

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CA	A147	Furber, M. et al., "Studies relating to the immunosuppressive activity of FK506," Tetrahedron Lett., 1993, Vol. 34(8), pgs. 1351-4.				
CA	A148	Ranganathan, Darshan et al., "Oxalopeptides as core motifs for protein design," J. Chem. Soc., 1993, Vol. (1), pgs. 92-4.				
CA	A149	Dawson, Ted M. et al. "Immunosuppresant FK506 enhances phosphorylation of nitric oxide synthase and protects against glutamate neurotoxicity," Proc. Natl. Acad. Sci. USA, 1993, Vol. 90, pgs. 9808-12.				
CA	A150	Cunliffe, C. Jane et al., "Novel inhibitors of proplyl 4-hydroxylase. 3. Inhibition by the substrate analog N-oxaloglycine and its derivatives," J. Med. Chem., 1992, Vol. 35(14), pgs. 2652-8.				
CA	A151	Waldmann. Herbert, "Amino acid esters as chiral auxilaries in Barbier-type reactions in aqueous solutions," Liebigs Ann. Chem., 1991, Vol. (12), pgs. 1317-22. (German)				
CA	A152	Krit, N.A. et al., "Impact of the nature of alkyl radical on the biological activity of N-carboxyalkyl dipeptides," KhlmFarm. Zh., 1991, Vol. 25(7), pgs. 44-6. (Russian)				
CA	A153	Blaschke et al., Chemical Abstracts, 1974, Vol. 84, pg. 78405k.				
CA	A154	Caufield, Craig E. and Musser, John H., <u>Annual Reports in Medicinal Chemistry</u> , Johns (Ed.), Academic Press, Inc., Chapter 21, pgs. 195-204.				
CA	A155	Effenberger F. et al., "Diastereoselective addition of benzenesuldenyl chloride to 1-acryloylproline esters," Chemical Abstracts, 1989, Vol. 10, pgs. 778-9.				
CA	A156	Nakatsuta M. et al. "Total Synthesis of FK506 and an FKBP Probe Reagent, (C ₈ , C ₉₋₁₃ C ₂)-FK-506," J. Am. Chem. Soc., 1990, Vol. 112 (14), pgs. 5583-90.				
CA	A157	Shu, A. et al., "Synthesis of I-125 labeled photoaffinity rapamycin analogs," J. Labelled Compd. Radiopharm., 1996, Vol. 38(3), pgs. 277-37.				
CA	A158	Tatlock, J. et al., "High affinity FKBP-12 ligands from ®-(-)-carvone. Synthesis and evaluation of FK506 pyranose ring replacements," Bioorg. Med. Chem. Lett., 1995, Vol. 5(21), pgs. 2489-94.				
CA	A159	Teague, S. et al., "Synthesis of FK506-cyclosporin hybrid macrocycles," Bioorg. Med. Chem. Lett., 1995, Vol. 5(20), pgs. 2341-6.				
CA	A160	Stocks, M. et al., "macrocyclic ring closures employing the intramolecular Heck reaction, "Tetrahedron Lett., 1995, Vol. 36(36), pgs. 6555-8.				
CA	A161	Wang, C.P. et al., "High performance liquid chromataographic isolation and spectroscopic characterization of three major metabolites from the plasma of rats receiving rapamycin (sirolimus) orally," J. Liq. Chromatogr., 1995, Vol. 18(13), pgs. 2559-68.				

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CA	A162	Armistead, D.M. et al., "Design, synthesis and structure of non-macrocyclic inhibitors of FKBP12, the major binding protein for the immunosuppressant FK506," Acta Crystallogr. 1995, Vol. D51(4), pgs. 522-8.			
Luengo, J. et al., "Structure-activity studies of rapamycin analogs: evidence that the C-7 methodoxy group is part of the effector domain and positioned at the FKBP:12-FRAP interface," Chem. Biol, 1995 Vol. 2(7), pgs. 471-81.					
CA	A164	Furber, Mark, "FKBP-12-ligand-calceineurin interactions: analogs of SBL506," J. Am. Chem. Soc., 1995, Vol. 117(27), pgs. 7267-8.			
CA	A165	Wang CP et al., "A high performace liquid chromatographic method for the determination of rapamycin (sirolamus) in the rat serum, plasma, and blood and in monkey serum," J. Liq. Chromatogr., 1995, Vol. 18(9), pgs. 1801-8.			
CA	A166	Chakraborty, TK et al., "Design and Synthesis of a rapamycin-based high affinity binding FKBP12 ligand," Chem. Biol., 1995, Vol. (2)3, pgs. 157-61.			
CA	A167	Smith, A.B. et al., "Total synthesis of rapamycin and demethoxyrapamycin," J. Am. Chem. Soc., 1995, Vol. 117(19) pgs. 5407-8.	1		
CA	A168	Baumann, K. et al., "Synthesis and oxidative cleavage of the major equilibrium products of ascomycin and FK 506," Tetrahedron Lett., 1995, Vol. 26(13), pgs. 2231-4.			
CA	A169	Nelson, F. et al., "A novel ring contraction of rapamycin," Tetrahedron Lett., 1994, 35(41), 7557-60.			
CA	A170	Dawson, T.M. et al., "The immunophilins, FK506 binding and cyclophilin, are discretely localized in the brain: relationship to calcineurin," Neuroscience, 1994, Vol. 62(2), pgs. 569-80.			
CA	A171	Cameron, Andrew et al., "Immuniphilin FK506 binding protein associated with inositol 1,4, 5-triphosphate receptor modulates calcium flux," Proc. Natl. Acad. Sci. USA, 1995, Vol. 92, pgs. 1784-1788.			
CA	A172	Stocks, M. et al., "The contribution to the binding of the pyranoside sustituents in the excised binding domain of FK-506," Bioorg. Med. Chem. Lett., 1994, Vol. 4(12), pgs. 1457-60.			
CA	A173	Steiner, J.P. et al., "Nonimmunosuppressive Ligands for Neuroimmunophilins Promote Nerve Extension In Vitro and In Vivo," Soc. For Neuroscience Abstracts, 1996, Vol. 22, pgs. 297.13.			
CA	A174	Lyons, W. Ernest et al., "Neronal Regeneration Enhances the Expression of the Immunophilin FKBP-12," The Journal of Neuroscience, 1995, Vol. 15, pgs. 2985-94.			
CA	A175	Skotnicki, Jerauld et al., "Ring expanded rapamycin derivatives," Tetrahedron Lett., 1994, Vol. 35(2), pgs. 201-2.			
CA	A176	Skotnicki, Jerauld et al., "Synthesis of secorapamycin esters and amides," Tetrah. Lett., 1994, Vol. 35(2), pgs. 197-200.			

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C· A	A177	Rao, A.V. Rama and Desibhatla, Vidyanand, "Studies directed towards the synthesis of rapamycin: stereoselective synthesis of C-1 to C-15 segment," Tetrahedron Lett., 1993, 34(44), 7111-14.					
. A178 Andru		Andrus, Merrit B., "Structure-based design of an acyclic ligand that bridges FKBP12 and calcineurin," J. Am. Chem. Soc., 1993, Vol. 115(2) pgs. 10420-1.					
CA	A179	Luengo, Juan I. Et al., "Efficient removal of pipecolinate from rapamycin and FK506 by reaction with tetrabutylammonium cyanide," Tetrahedron Lett., 1993, Vol. 34(29), pgs. 4599-602.					
CA	A180	Steffan, Robert J. et al., "Base catalyzed degradation of rapamycin," Tetrahedron Lett., 1993, Vol. 34(23), pgs. 3699-702.					
LA	A181	Nicolau, K.C. et al., "Total Synthesis of rapamycin," J. Am. Chem. Soc., 1993, Vol. 115(10), pgs. 4419-20.					
LA	A182	Hayward, C.M. et al., "Total synthesis of rapamycin via a novel titanium-mediated aldol macrocyclization reaction," J. Am. Chem. Soc., 1993, Vol. 115(20), pgs. 9345-6.					
CA	A183	Yohannes, Daniel et al. "Degradation of rapamycin: synthesis of a rapamycin-derived fragment containing the tricarbonyl and triene sectors," Tetrahedron Lett., 1993, Vol. 34(13),pgs. 2075-8.					
LA	A184	Luengo, J. et al., "Studies on the chemistry of rapamycin: novel transformation under Lewis-acid catalysis," Tetrahedron Lett., 1993, Vol. 34(6), pgs. 991-4.					
CA	A185	Yohannes, Daniel et al., "Degradation of rapamycin: retrieval of major intact subunits," Tetrahedron Lett., 1992, Vol. 33(49), pgs. 7469-72.					
CA	A186	Hovarth, R. et al., "An application of the Evans-Prasad 1,3-Syn diol synthesis to a stereospecific synthesis of the C ₁₀ -C ₂₇ segment of rapamycin," Tetrahedron Lett., 1993, Vol. 34(25), pgs. 3993-3996.					
CA	A187	Whitesell, J.K. et al., "Asymmetric Induction. Reduction, Nucleophilic Addition to, Ene Reactions of Chiral α-Ketoesters," J. Chem. Soc., Chem Commun., 1983, pg. 802.					
A188 Ando, Takao et al., "Formation of Crossed Phenzine from the reaction between Tetra-p-anisyl-at Tetra-p-tolyl- hydrazines in Liquid Sulphur Dioxide," Chem. Comm., S. Chem. Comm., 1975, pg. A189 Kino, Toru et al., "FK-506, A novel immunosuppressant isolated from A Streptomyces," J. of Anti 1987, Vol. 40(9), pgs. 1249-55.		Ando, Takao et al., "Formation of Crossed Phenzine from the reaction between Tetra-p-anisyl- and Tetra-p-tolyl- hydrazines in Liquid Sulphur Dioxide," Chem. Comm., S. Chem. Comm., 1975, pg. 989.					
		Kino, Toru et al., "FK-506, A novel immunosuppressant isolated from A Streptomyces," J. of Antibiotics, 1987, Vol. 40(9), pgs. 1249-55.					
		Goulet, Mark T. and Boger, Joshua, "Degradative studies on the tricarbonyl containing macrolide rapamycin," Tetrahedron Lett., 1991, Vol. 32(45), pg. 6454.					
CA	A191	Goulet, Mark T. et al., "Construction of the FK-506 analog from rapamycin-derived materials," Tetrahedron Lett., 1991, Vol. 32(36), pgs. 4627-30.					

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CA	A192	Rao, A.V. Rama et al., "Studies directed towards the synthesis of immunosuppressive agent FK-506: synthesis of the entire bottom half," Tetrahedron Lett., 1991, Vol. 32(9), pgs. 1251-4.	
CA	A193	Fisher, Matthew et al., "On the remarkable propensity for carbon-carbon bond cleavage reactions in the C(8)-Cc(10) region of FK-506," J. Org. Chem., 1991, Vol. 56(8), pgs. 2900-7.	
CA	A194	Linde, Robert G. et al., "Straightforward synthesis if 1,2,3-tricarbonyl systems," J. Org. Chem., 1991, Vol. 56(7), pgs. 2534-8.	
CA	A195	Hayward, C.M. et al., "An application of the Suarez reaction to the regiospecific synthesis of the C ₂₈ -C ₄₂ segment of rapamycin,", 1993, pgs. 3989-92.	
CA	A196	Waldmann, Herbert, "Propline benzyl ester as chiral auzilary in Barbier-type reactions in aqueous solution," Synlett, 1990, Vol. 10, pgs. 627-8.	
CA	A197	Gold, Bruce G. et al., "Regulation of aberrant neurofilament phosophorylation in neuronal periokarya. IV. Evidence for the involvement of two signals," <u>Brain Search</u> , (1993) Vol. 626, pgs. 23-30.	
CA	A198	Hauske, James R. et al., "Design and Synthesis of Novel FKBP Inhibitors," J. Med. Chem., 1992, Vol. 35, pgs. 4284-4296.	
CA	A199	Holt, Dennis A. et al., "Structure Acitivity Studies of Nonmacrocyclic Rapamycin Derivatives," Bioorganic & Medical Chemistry Letters, 1993, Vol. 3, No. 10, pgs. 1977-1980.	
CA	A200	Yamashita, Dennis S. et al., "Design Synthesis and Evaluation of Dual Domain FKBP Ligands," Bioorganic & Medicinal Chemistry Letters, 1994, Vol. 3, No. 2, pgs. 325-28.	
CA	A201	Teague, Simon J. et al., "Synthesis and Study of a Non Macrocyclic FK506 Derivative," Bioorganic & Medicinal Chemistry Letters, 1994, Vol. 4, No. 13, pgs. 1581-1584.	
CA	A202	Luengo, Juan I. Et al. "Synthesis and Structure-Activity Relationships of Macrocyclic FKBP Ligands," Bioorganic & Medicinal Chemistry Letters, 1994, Vol. 4, No. 2, pgs. 321-324.	
CA	A203	Holt, Dennis A. et al., "Structure-Activity Studies of Synthetic FKBP Ligands as Prptidyl-Prolyl Isomerase Inhibitors," Bioorganic & Medicinal Chemistry Letters, 1994, Vol. 4, No. 2, pgs. 315-320.	
CA	A204	Teague, Simon J. et al. "The Affinity of the Excised Binding Domain of the FK-506 for the Immunophilin FKBP12," Bioorganic & Medicinal Chemistry Letters, 1993, Vol. 3, No. 10, pgs. 1947-1950.	
LA	A205	Caffrey, Moya V. et al. "Synthesis and Evaluation of Dual Domain Macrocyclic FKBP12 Ligands," Bioorganic & Medicinal Chemsitry Letters, 1994, Vol. 4, No. 21, pgs. 2507-2510.	
CA	A206	Birkenshaw, Tlmothy N. et al. "Synthesis FKBP12 Ligands. Design and Synthesis of Pyranose Replacements," Bioorganic & Medicinal Chemistry Letters, 1994, Vol. 4, No. 21, pgs. 2501-2506.	

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CA	A207	Holt, Dennis A. et al. "Design, Synthesis, and Kinetic Evaluation of High-Affinity FKBP Ligands and the X-ray Crystal Structures of their Complexes with FKBP12", J. Am. Chem. Soc., 1993, Vol. 115, pgs. 9925-39.	
CA	A208	Wang, Gary T. et al. "Synthesis and FKBP Binding of Small Molecule Mimics of the Tricarbonyl Region of FK506," Bioorganic & Medicinal Chemistry Letters, 1994, Vol. 4, No. 9, pgs. 1161-1166.	:
CA	A209	Snyder, Solomon H. and Sabatini, David M., "Immunophilins and the Nervous System," Nature Medicine, 1995, Vol. 1, No. 1, pgs. 32-37.	
CA	A210	Egbertson, M., and Ddanishefsky, S., "A synthetic route to the tricarbonyl region of FK-506," J. Org. Chem., 1989, Vol. 54(1), pgs. 11-12.	
CA	A211	Williams, D.R. and Benbow, J.W., "Synthesis of the α,β diketo amide segment of the novel immunosuppresive FK506," J. Org. Chem., 1988, Vol. 53(191), pgs. 4643-4.	
CA	A212	Kocienski, P. et al., "A synthesis of the C(1)-C(15) segemnt of tsukubaenolide (FK506)," Tetrahedron Lett., 1988, Vol. 29(35), pgs. 4481-4.	
CA	A213	Tanaka, H. et al., "Structure of FK506, a novel immunosuppressant isolated from Streptomyces" J. Am. Chem. Soc., 1987, Vol. 109(16), pgs. 5031-3.	
CA	A214	Marshall, J.A. et al., "Convenient synthesis of dioxopiperazines via aminolysis of .alpha(pyruvylamino) esters," Synth. Commun., 1975, 5(3), 237-44.	
CA	A215	Stocks, Michael J. et al. "The Contricution to Binding of the Pyranoside Substituents in the Excised Binding Domain of FK-506," Bioorganic & Medicinal Chemistry Letters, 1994, Vol. 4, No. 12, pgs. 1457-1460.	
LA	A216	Haeusler, Johannes and Schmidt, Ulrich, "Amino acids and peptides. IX. Pyruvoyl amino acids," Chem. Ber., 1974, Vol. 107(1), pgs. 145-51. (German)	
CA	A217	Hearn, Walter R., and Worthington, Robert E., "L-Proline-N-oxalic anhydride," J. Org. Chem., 1967, Vol. 32(12), pgs. 4072-4.	
CA	A218	Chemical Abstracts, (1996) Volume 6, compound 704d.	
CA	A219	Pesson, Marcel et al., "Chemistry and Pharmacology of Derivatives of Pyrrole. I. 2-pyrrolyl Ketones. Preparation and Pharmacology." Chim. Ther., (1966) Vol. 3, pgs. 127-36.	
CA	A220	Archibald, John L. et al., "Reactions of Pyrroles. II. Preparation and Reactions of Pyrroleglyoxyloyl Derivatives", <u>J. Heterocycle Chem.</u>	
CA	A221	Zellner, Hugo et al. "Reaction of Pyruvic Acid with O-diamine. III. Synthesis of 2-(A-oxoalkyl) benzimidazoles", Monatsh. Chem., (1967) Vol. 98(3): pgs. 643-65.	

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CA	A222	Kost, A.N. et al. "Indole Chemistry, XXVII. 2-(Haloacetyl) indoles", Khim Geterotsikl, Soedin.", (1971) Vol. 7(11), pgs. 1522-26.					
CA	A223	Kotani, E. et al. "New Synthesis of the Alkaloid (+-) -cryptoplleurine by Anodic Oxidation", <u>Tetrahedron</u> . (1974), Vol. 30(17), pgs. 3027-30.					
CA	A224	Barrett, Anthony, "A New Arrangement Reaction of Penicillin G Sulfoxide", J. Chem. Soc., Perkin Trans., (1979), Vol. 1(1), pgs 170-75.					
CA	A225	Tressl, Roland et al., "Formation of Pyrroles, 2-pyrrolidones, and Pyridones by Heating of 4-aminobutyric Acid and Reducindg Sugars", <u>J. Agric. Food Chem.</u> , (1993), Vol. 41, pgs. 2125-30.					
CA	A226	Demirayak, Seref et al., "Synthesis of Some 1-(2-arylvinyl)-3-arylpyrazino (1,2-a) benzimidazole Derivatives and their Antimicrobial Activities", Farmaco, (1996), Vol. 51(12) pgs. 825-27.					
CA	A227	SHARKEY, John et al., "Immunophilins mediate the neuroprotective effects of FK506 in focal cerebral ischemia," Chemical Abstract, 121:221398 (XP002212406)					

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CA	A2	3,458,515		ARCHIBALD	07/29/1969	
CA	A3	3,459,770		FREED	08/05/1969	
CA	A4	4,053,599		EFFLAND	10/11/1977	
CA	A5	4,310,461		KRAPCHO	01/12/1982	
CA	A6	4,374,829		HARRIS	02/22/1983	
/A	A7	4,390,695		KRAPCHO	01/28/1983	
CA	A8	4,531,964		SHIMANO	07/30/1985	
CA	A9	4,574,079		GAVRAS	03/04/1986	
CA	A10	4,578,474		KRAPCHO	03/25/1986	
CA	A11_	4,593,102		SHANKLIN, JR.	06/03/1986	· ·
CA	A12	4,766,110		RYAN	08/23/1988	
(A	A13	4,808,573		GOLD	02/28/1989	
$\mathcal{C}\mathcal{A}$	A14	4,818,749		GOLD	11/04/1987	
CA	A15	4,857,524		FURUKAWA	08/15/1989	
CA	A16	4,912,128		HENNING	03/27/1990	
CA	A17	4,916,146		TANAKA	04/10/1990	
ZA	A18	5,028,604		TARIZUKA	07/02/1991	
CA	A19	5,147,877		GOULET	09/15/1992	
CA	A20	5,166,317		WALLACE	11/24/1992	
	A21	5,192,773		ARMISTEAD	03/09/1993	
CA	A22	5,215,969		SPRINGER	06/01/1993	
CA	A23	5,252,579		SKOTNICKI	10/12/1993	
CA	A24	5,232,923		FUKAZAWA	08/03/1993	
CA	A25	5,294,603		RINEHART	03/15/1994	
CA	A26	5,319,098		BURBAUM	06/07/1994	
	A27	5,321,041		ADACHI	06/14/1994	
CA	A28	5,330,993		ARMISTEAD	07/19/1994	
CA	A29	5,359,138		TAKEUCHI	10/25/1994	
CA	A30	5,385,918		CONNELL	01/31/1995	
TA.	A31	5,414,083		HACKL	05/09/1995	
CA	A32	5,424,454		BURBAUM	06/13/1995	
CA	A33	5,447,915		SCHREIBER	09/05/1995	
CST	A34	5,516,797		ARMISTEAD	05/14/1996	
CH	A35	5,543,423		ZELLE	08/06/1996	
CA	A36	5,654,332		ARMISTEAD	08/05/1997	
CA	A37	5,717,092		ARMISTEAD	02/10/1998	
CA	A38	5,786,378		HAMILTON	07/28/1998	
CA.	A39	5,990,131		HAMILTON	11/23/1999	,
CA	A40	6,037,370	- :	ARMISTEAD	03/14/2000	
CH.	A41	6,124,328		ARMISTEAD	09/26/2000	
CA	A42	6,218,424		HAMILTON	04/17/2001	

Examiner Signature	ALLIAKH	Date Considered	4.14-04
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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